

AMENDMENTS TO THE ABSTRACT

Please add the following abstract to the specification:

Device for carrying out chemical reactions and processes in high-frequency fields includes a high-frequency chamber for irradiating a solid, liquid or gaseous substance while under pressure with at least one radiation source and a reactor for exposing to a high-frequency field. The reactor is connectively coupled to the upper wall of the high-frequency chamber through a sealable connection. Rod or rod-like elements are provided around the reactor and configured to form a pressure-resistant cage. The rod or rod-like elements each have a guide for holding a crown-shaped holder. The holder is fixed in its position by the guides of the rod or rod-like elements. Multiple reaction chambers can be incorporated as a batch reactor system.